## WATER QUALITY MEMORANDUM

## Utah Coal Regulatory Program

April 13, 2005

TO:		Internal File		
THRU	J:	D. Wayne Hedberg, Permit Supervisor		
FROM:		James D. Smith, Environmental Scientist		
RE:		2004 Fourth Quarter Water Monitoring, PacifiCorp, Deer CC/015/0018, Task ID # 2076	Creek Mine,	
MRP.	The Deer Creek Mine monitoring plan is described in Appendix A of Volume 9 of the			
1.	Were	data submitted for all required sites?		
	Spring	gs	YES [X] NO [ ]	
	Stream	ms	YES [X] NO [ ]	
	Wells		YES [X] NO [ ]	
UPDE		S	YES [X] NO [ ]	
	In-mii	ne	YES [X] NO [ ]	
2.	Were all required parameters reported for each site?			
	Spring	gs	YES [ ] NO [X]	
Rilda Meter 3: Valve problems prevented collection of November flow and Decemb operational parameters data.				
	Stream	ms	YES [ ] NO [X]	
	ICF: w	F: water samples for lab analyses were lost in transit. Field parameters were not		

reported.

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Wells YES [X] NO [ ]

UPDES YES [X] NO [ ]

In-mine YES [X] NO [ ]

## 3. Were irregularities found in the data?

Listed parameters were outside two standard deviations. An asterisk (\*) indicates this is not a parameter required by the MRP.

Springs YES [X] NO [ ]

Burnt Tree: field conductivity (n = 35);

Sheba Spring: Ca (n = 13);

Ted's Tub: field conductivity (n = 24);

79-10: lab pH\* (n = 48);

89-65: field conductivity (n = 18), lab pH\* (n = 20), Ca (n = 12), Mg (n = 12),

and total alkalinity\* (n = 20);

89-67: field conductivity (n = 25), Ca (n = 14), and Mg (n = 14);

JV-9: total hardness (n = 8) and TDS (n = 8);

MF-7: water temperature (n = 8);

MF-213: flow (n = 8);

RR-23A: water temperature (n = 8).

Streams YES [X] NO [ ]

RCF-3 <u>December</u>: field DO (n = 74).

Wells YES [X] NO [ ]

CCW-1S <u>October</u>, <u>November</u>, <u>and December</u>: water level and depth (n = 81). This water level has been dropping slowly for several years;

CCW-3S-U October, November, and December: water level and depth (n = 79);

DCWR-1: cation-anion balance (n = 13).

UPDES YES [X] NO [ ]

UT0023604-002 December: field conductivity (n = 190).

In-mine YES [X] NO [ ]

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Main North-Main East: water temperature (n = 43).

4. On what date does the MRP require a five-year resampling of baseline water data.

Renewal submittal due 10/07/05, renewal due 02/07/06. Baseline analyses were performed in 2001 and will be repeated every 5 years, i.e., the next baseline analyses will be in 2006.

5. Based on your review, what further actions, if any, do you recommend?

The valve problems at NEWUA Meter # 3 need to be resolved so flow measurement and water sampling can be done.

**6. Does the Mine Operator need to submit more** [ ] Yes [X] No information to fulfill this quarter's monitoring requirements?

7. Follow-up from last quarter, if necessary.

None.

8. Did the Mine Operator submit all the missing or irregular data?

NA

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